# *An account of the* Eclipſes *or* ingreſſes *of* Jupiters Satellits *into his ſhadow and ſuch* Emerſions *of them from it as will be viſible at the* Obſervatory *at* Greenwich *in the three laſt Months of this year* 1683. *ſent in a Letter to the* Publiſher *from* J. F. Aſtron. Reg.

*SIR,*

I Here ſend you an account of the *Eclipſes* or *Ingreſſes* of *Jupiters Satellits* into his ſhadow, and ſuch emerſions of them from it as will be viſible at the *Obſervatory* in the three laſt moneths of this year; they are calculated from *new Tables* I made this laſt ſummer, and I hope ſo exactly that the *Ingreſſes* of the firſt will ſeldom be found when obſerved, to differ above 5 minutes from the time ſtated, the 3 but little more; the *Eclipſes* of the fourth and ſecond I dare not promiſe you ſhall agree ſo well, for I find their *motions* evidently intangled with inequalitys, which it will require a long time and many more accurate *obſervations* to determine and limit, then I have yet obtained: theſe *Eclipſes* have been eſteemed, and certainly are a much better expedient for the diſcovery of the *Longitude* then any yet known, by reaſon that they happen frequently, and are eaſily obſerveable with a *Teleſcope* of 12. foot, or for need with one of 8. Theſe *Ingreſſes* (and *emerſions* alſo if viſible) from the time till the opoſition of the ☉ and ♃ happen truely on the right hand or in *antecedence* of the *planet*, but if they ſhall be obſerved with *Teleſcopes* of only two *Convex glaſſes* which invert the object, they appear on the contrary or left ſide of him. If theſe find acceptance with our ingenious friends the *Eclipſes* of the next year ſhall be imparted early enough to be publiſhed in the *December Tranſactions*. I am

*SIR,*

yours, *&c.*

*J. FLAMSTEED.*

Obſervatory Sept. 22. 1683.

*The*

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*The* Ingreſſes *of* ♃ Satellits *into his ſhadow and* Emerſions *of the third and fourth from it, viſible at the* Obſervatory *in the moneths of* October November *and* December, 1683.

| | | | h | ' | |
|---|---|---|---|---|---|
| *October* 9. | *Ingreſſe* | of the 1. | at 2. | 50. | Morne. |
| 15. | Ing. | of the 4. | at 7. | 15. | |
| 16. | Ing. | 1. | at 4. | 43. | |
| 18. | Ing. | 2. | at 3. | 17. | |
| 23. | Ing. | 1. | at 6. | 37. | |
| 25. | Ing. | 2. | at 5. | 51. | |
| 31. | Emerſion | of the 3. | at 3. | 42. | |
| *Novem.* 1. | Ingr. | of the 4. | at 1. | 10. | |
| | | the 1. | at 2. | 59. | |
| | Emer. | of the 4. | at 4. | 52. | |
| 7. | Ingr. | of the 3. | at 4. | 10. | |
| | Emerſ. | of the 3. | at 7. | 38. | |
| 8. | Ingr. | of the 1. | at 4. | 49. | |
| 14. | Ingr. | of the 3. | at 8. | 05. | |
| 15. | Ingr. | of the 1. | at 6. | 40. | |
| 17. | | of the 1. | at 1. | 09. | |
| 19. | | of the 2. | at 2. | 44. | |
| 22. | | of the 1. | at 8. | 32. | |
| 24. | | of the 2. | at 3. | 00. | |
| 26. | | of the 2. | at 5. | 22. | |
| *Decem.* | the 1. Ing. | of the 1. | at 4. | 50. | Morn. |
| 2. | | of the 1. | at 11. | 16. | A. Noo. |
| 3. | | of the 2. | at 7. | 47. | Morn. |
| 8. | | of the 1. | at 6. | 38. | Morn. |
| 10. | | of the 1. | at 1. | 06. | Morn. |
| 12. | | of the 3. | at 11. | 42. | A. Noo. |
| 13. | and Emerſ. | | at 3. | 40. | Morn. |
| 13. | Ingr. | of the 2. | at 11. | 32. | A. Noo. |
| 17. | | of the 1. | at 2. | 55. | Morn. |
| 20. | Ingreſ. | of the 3. | at 3. | 34. | Morn. |
| | and Emerſ. | | at 7. | 00. | Morn. |
| 21. | Ingreſ. | of the 2. | at 2. | 05. | Morn. |
| | | of the 4. | at 6. | 35. | Morn. |
| 24. | Ingreſ. | of the 1. | at 4. | 46. | Morn. |
| 25. | | the 1. | at 11. | 14. | A. Noo. |
| 28. | | the 2. | at 4. | 35. | Morn. |
| 31. | | the 1. | at 6. | 36. | Morn. |